

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P879348

Luminaire Tested: **LD4C100D010 EU41009027 4LBDWWH**

Issue Date: 10/1/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P879348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C100D010 EU41009027 4LBDWWH
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

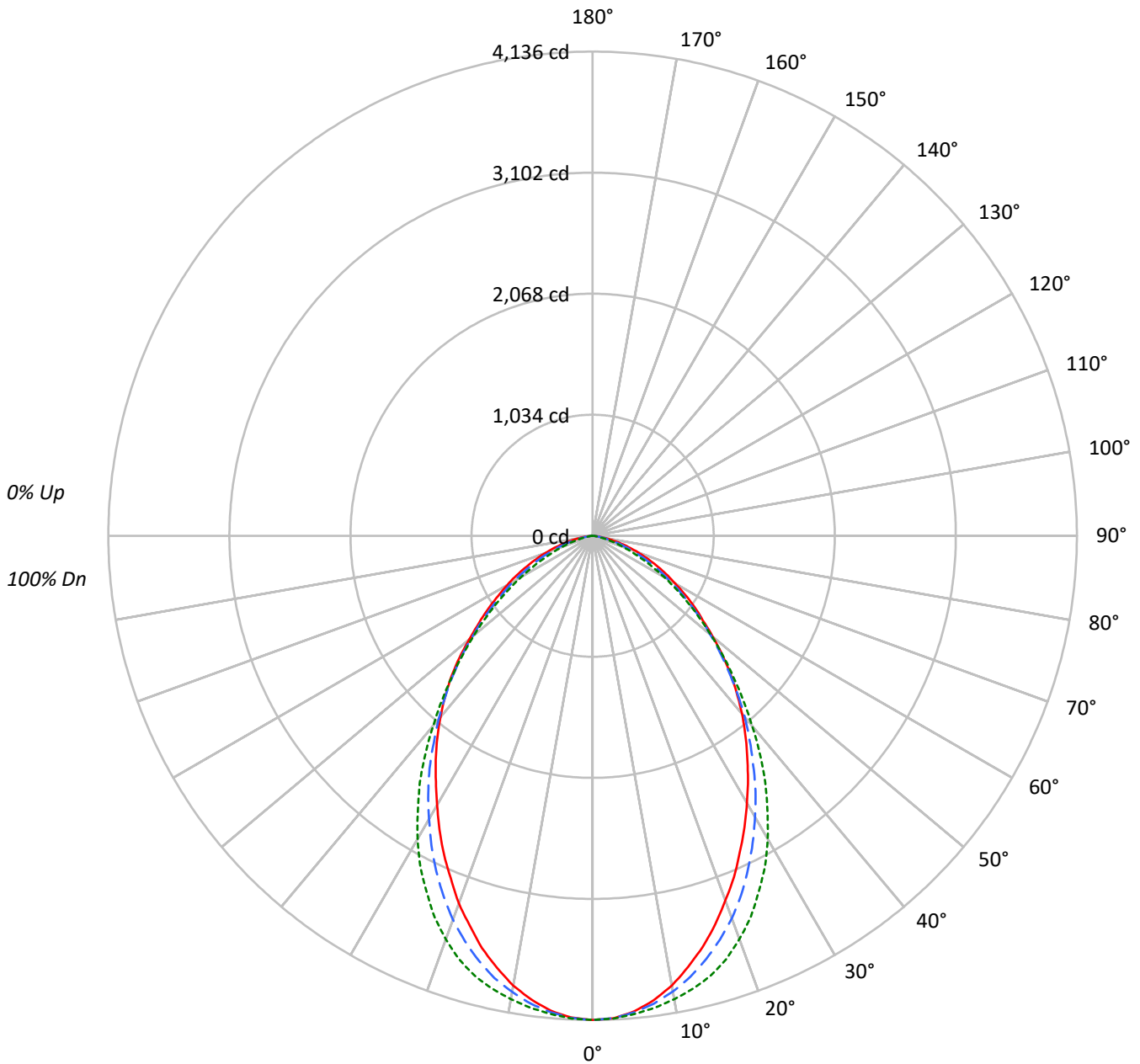
Lumens per Lamp: N/A
Luminaire Lumens: 7398.0 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59																			
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52																			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	508134	508134	508134
5°	502960	505771	502392
10°	486607	501377	486794
15°	462300	494949	463852
20°	433305	479377	436887
25°	403557	454837	407271
30°	373855	424272	376650
35°	344901	385679	350135
40°	318134	339816	323987
45°	288184	294508	296889
50°	255478	252286	261862
55°	227747	212454	232951
60°	199293	172437	206762
65°	174418	133342	180580
70°	146769	97666	154420
75°	114633	63463	121136
80°	75206	33323	82776
85°	25654	14942	34253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.1	5.2
10°-20°	1055.0	14.3
20°-30°	1450.9	19.6
30°-40°	1513.6	20.5
40°-50°	1295.0	17.5
50°-60°	926.3	12.5
60°-70°	537.5	7.3
70°-80°	207.2	2.8
80°-90°	26.4	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2892.0	39.1
0°-40°	4405.6	59.6
0°-60°	6626.9	89.6
0°-90°	7398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7398.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4136	4136	4136	4136	4136	
5°	4078	4086	4101	4086	4074	384
15°	3635	3744	3892	3758	3647	1019
25°	2977	3141	3355	3161	3004	1369
35°	2300	2391	2572	2429	2335	1440
45°	1659	1645	1695	1686	1709	1279
55°	1063	1010	992	1037	1088	951
65°	600	530	459	548	621	598
75°	242	181	134	191	255	260
85°	18	14	11	15	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1
2.5°	4125.5	4122.4	4123.9	4123.9	4123.9	4122.4	4125.5	4125.5	4123.9	4123.9	4123.9
5°	4078.4	4075.3	4076.9	4078.4	4078.4	4078.4	4079.9	4081.4	4082.9	4084.4	4086.0
7.5°	4002.4	3997.9	4002.4	4008.5	4008.5	4010.0	4011.5	4013.1	4017.6	4025.2	4029.8
10°	3900.7	3900.7	3902.2	3906.7	3914.3	3912.8	3917.4	3925.0	3934.1	3944.7	3952.3
12.5°	3771.5	3774.6	3779.1	3783.7	3791.3	3795.8	3803.4	3812.6	3827.7	3842.9	3859.6
15°	3634.8	3636.4	3637.9	3648.5	3656.1	3666.7	3672.8	3691.0	3704.7	3726.0	3744.2
17.5°	3481.4	3479.9	3484.5	3493.6	3511.8	3516.4	3524.0	3543.7	3563.4	3592.3	3616.6
20°	3314.3	3323.5	3329.5	3341.7	3352.3	3364.5	3370.5	3394.8	3417.6	3445.0	3476.9
22.5°	3156.4	3148.8	3159.4	3173.1	3182.2	3191.3	3201.9	3227.8	3252.1	3285.5	3317.4
25°	2977.1	2981.7	2989.3	2999.9	3012.1	3024.2	3036.4	3063.7	3077.4	3112.3	3141.2
27.5°	2807.0	2814.6	2817.6	2831.3	2841.9	2851.1	2857.1	2889.0	2901.2	2931.6	2960.4
30°	2635.4	2643.0	2643.0	2658.2	2665.8	2674.9	2690.1	2711.3	2729.5	2750.8	2772.1
32.5°	2469.8	2469.8	2475.9	2489.6	2497.1	2507.8	2512.3	2527.5	2545.8	2567.0	2589.8
35°	2299.7	2304.2	2310.3	2310.3	2324.0	2330.1	2336.1	2351.3	2363.5	2372.6	2390.8
37.5°	2143.2	2143.2	2138.7	2146.3	2155.4	2153.9	2163.0	2170.6	2178.2	2188.8	2204.0
40°	1983.7	1983.7	1977.7	1982.2	1988.3	1986.8	1983.7	1991.3	1997.4	2005.0	2020.2
42.5°	1821.2	1818.2	1816.7	1816.7	1819.7	1816.7	1819.7	1821.2	1821.2	1821.2	1830.3
45°	1658.7	1666.3	1657.2	1654.1	1649.6	1645.0	1643.5	1645.0	1651.1	1643.5	1645.0
47.5°	1499.2	1502.2	1496.2	1491.6	1487.0	1484.0	1487.0	1477.9	1481.0	1482.5	1476.4
50°	1336.7	1330.6	1330.6	1326.0	1327.6	1326.0	1323.0	1320.0	1320.0	1312.4	1307.8
52.5°	1186.3	1189.3	1192.4	1181.7	1183.3	1175.7	1177.2	1169.6	1169.6	1160.5	1163.5
55°	1063.3	1058.7	1058.7	1054.1	1052.6	1045.0	1043.5	1039.0	1028.3	1022.3	1010.1
57.5°	935.7	934.2	928.1	929.6	920.5	919.0	915.9	908.3	900.7	893.1	879.5
60°	811.1	812.6	812.6	809.6	805.0	797.4	799.0	788.3	777.7	764.0	751.9
62.5°	707.8	703.3	701.8	698.7	689.6	689.6	682.0	674.4	663.8	650.1	639.5
65°	600.0	601.5	596.9	592.4	583.3	581.8	575.7	569.6	559.0	545.3	530.1
67.5°	502.8	499.7	498.2	493.7	484.5	483.0	478.5	464.8	455.7	442.0	429.9
70°	408.6	405.6	407.1	399.5	390.4	385.8	384.3	373.7	360.0	349.4	337.2
72.5°	320.5	320.5	319.0	311.4	306.8	303.8	297.7	285.6	278.0	265.8	256.7
75°	241.5	240.0	237.0	232.4	226.3	223.3	220.2	212.7	202.0	188.3	180.8
77.5°	167.1	168.6	165.6	164.0	156.5	151.9	150.4	145.8	136.7	127.6	120.0
80°	106.3	104.8	103.3	100.3	98.7	97.2	92.7	89.6	80.5	75.9	71.4
82.5°	57.7	54.7	54.7	53.2	50.1	48.6	47.1	44.0	42.5	39.5	36.5
85°	18.2	19.7	18.2	18.2	18.2	16.7	16.7	16.7	15.2	15.2	13.7
87.5°	1.5	3.0	1.5	1.5	3.0	1.5	1.5	3.0	1.5	1.5	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1
2.5°	4123.9	4125.5	4125.5	4127.0	4127.0	4127.0	4127.0	4127.0	4127.0	4127.0	4127.0
5°	4090.5	4090.5	4093.6	4096.6	4096.6	4096.6	4098.1	4101.2	4101.2	4101.2	4099.6
7.5°	4035.8	4041.9	4048.0	4054.1	4055.6	4057.1	4060.1	4066.2	4066.2	4066.2	4066.2
10°	3964.4	3978.1	3985.7	3994.8	3999.4	4002.4	4011.5	4013.1	4017.6	4019.1	4017.6
12.5°	3873.3	3891.5	3908.2	3923.4	3929.5	3935.6	3944.7	3953.8	3958.4	3962.9	3961.4
15°	3771.5	3791.3	3817.1	3833.8	3846.0	3855.1	3868.8	3880.9	3888.5	3891.5	3891.5
17.5°	3648.5	3672.8	3700.2	3727.5	3735.1	3750.3	3765.5	3782.2	3791.3	3792.8	3791.3
20°	3511.8	3539.1	3561.9	3589.3	3606.0	3613.6	3634.8	3656.1	3665.2	3666.7	3665.2
22.5°	3349.3	3375.1	3405.5	3434.3	3448.0	3461.7	3484.5	3505.7	3517.9	3527.0	3517.9
25°	3168.5	3205.0	3233.8	3258.1	3277.9	3291.6	3320.4	3337.1	3356.9	3355.4	3356.9
27.5°	2990.8	3021.2	3053.1	3081.9	3094.1	3109.3	3132.1	3159.4	3176.1	3186.7	3185.2
30°	2808.5	2832.8	2860.2	2886.0	2905.7	2917.9	2951.3	2963.5	2984.7	2990.8	2986.2
32.5°	2615.6	2632.3	2659.7	2694.6	2702.2	2714.4	2735.6	2766.0	2773.6	2776.6	2778.2
35°	2410.6	2442.5	2465.2	2486.5	2492.6	2503.2	2527.5	2550.3	2557.9	2571.6	2565.5
37.5°	2220.7	2238.9	2249.6	2270.8	2289.1	2298.2	2310.3	2325.5	2340.7	2346.8	2345.3
40°	2030.8	2039.9	2049.1	2071.8	2073.4	2073.4	2091.6	2112.9	2112.9	2118.9	2118.9
42.5°	1836.4	1837.9	1850.1	1862.2	1865.3	1868.3	1886.5	1889.6	1898.7	1903.2	1909.3
45°	1648.1	1657.2	1664.8	1666.3	1673.9	1675.4	1680.0	1684.5	1698.2	1695.1	1698.2
47.5°	1476.4	1481.0	1485.5	1485.5	1490.1	1488.6	1496.2	1491.6	1500.7	1503.8	1508.3
50°	1307.8	1315.4	1310.9	1313.9	1312.4	1316.9	1313.9	1313.9	1313.9	1320.0	1324.5
52.5°	1152.9	1154.4	1149.8	1151.4	1151.4	1148.3	1151.4	1149.8	1148.3	1148.3	1149.8
55°	1010.1	1004.0	1001.0	994.9	987.3	996.4	991.9	988.8	994.9	991.9	994.9
57.5°	871.9	864.3	858.2	855.2	844.5	850.6	844.5	841.5	841.5	841.5	849.1
60°	741.2	733.7	726.1	716.9	715.4	712.4	709.3	701.8	703.3	701.8	704.8
62.5°	627.3	612.1	601.5	593.9	592.4	587.8	583.3	575.7	577.2	577.2	578.7
65°	522.5	505.8	490.6	480.0	480.0	472.4	464.8	464.8	455.7	458.7	460.2
67.5°	417.7	404.0	388.9	381.3	376.7	370.6	366.1	363.0	358.5	358.5	361.5
70°	323.5	309.9	302.3	290.1	288.6	284.0	278.0	273.4	271.9	271.9	270.4
72.5°	244.6	232.4	223.3	215.7	211.1	206.6	200.5	199.0	195.9	195.9	199.0
75°	170.1	162.5	154.9	147.3	144.3	142.8	138.2	135.2	135.2	133.7	135.2
77.5°	113.9	106.3	98.7	95.7	92.7	89.6	88.1	86.6	82.0	82.0	82.0
80°	65.3	62.3	59.2	54.7	54.7	53.2	50.1	48.6	47.1	47.1	47.1
82.5°	33.4	31.9	28.9	27.3	27.3	27.3	25.8	25.8	24.3	24.3	24.3
85°	13.7	12.2	10.6	10.6	10.6	10.6	10.6	10.6	12.2	10.6	12.2
87.5°	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1
2.5°	4127.0	4125.5	4125.5	4125.5	4125.5	4125.5	4123.9	4123.9	4122.4	4122.4	4122.4
5°	4101.2	4099.6	4098.1	4096.6	4095.1	4093.6	4092.0	4090.5	4086.0	4084.4	4081.4
7.5°	4064.7	4061.7	4057.1	4055.6	4052.5	4048.0	4041.9	4038.9	4032.8	4025.2	4022.2
10°	4016.1	4010.0	4005.5	3997.9	3996.3	3990.3	3975.1	3967.5	3956.9	3947.7	3937.1
12.5°	3956.9	3950.8	3940.1	3929.5	3923.4	3909.8	3896.1	3883.9	3870.3	3850.5	3835.3
15°	3883.9	3874.8	3853.6	3850.5	3841.4	3820.1	3801.9	3779.1	3757.9	3736.6	3718.4
17.5°	3786.7	3767.0	3756.4	3742.7	3732.1	3704.7	3685.0	3659.1	3630.3	3606.0	3580.2
20°	3659.1	3637.9	3619.6	3612.1	3598.4	3574.1	3549.8	3517.9	3489.0	3458.6	3435.9
22.5°	3507.2	3493.6	3466.2	3457.1	3440.4	3416.1	3387.3	3356.9	3329.5	3296.1	3265.7
25°	3344.7	3325.0	3303.7	3285.5	3273.3	3250.5	3214.1	3191.3	3160.9	3124.5	3101.7
27.5°	3171.6	3148.8	3118.4	3106.2	3095.6	3065.2	3034.9	3006.0	2981.7	2949.8	2930.0
30°	2971.1	2954.4	2934.6	2919.4	2904.2	2879.9	2852.6	2819.2	2793.3	2778.2	2750.8
32.5°	2767.5	2753.8	2728.0	2720.4	2703.7	2684.0	2664.2	2639.9	2612.6	2589.8	2568.5
35°	2550.3	2536.6	2518.4	2504.7	2498.7	2485.0	2463.7	2442.5	2428.8	2403.0	2392.3
37.5°	2333.1	2328.5	2310.3	2296.6	2292.1	2275.4	2264.7	2249.6	2229.8	2223.7	2211.6
40°	2109.8	2106.8	2096.1	2094.6	2085.5	2081.0	2065.8	2053.6	2044.5	2039.9	2032.4
42.5°	1904.8	1901.7	1892.6	1894.1	1885.0	1882.0	1880.5	1869.8	1862.2	1853.1	1854.6
45°	1702.7	1699.7	1693.6	1690.6	1695.1	1693.6	1690.6	1686.0	1686.0	1687.5	1683.0
47.5°	1508.3	1511.4	1505.3	1508.3	1508.3	1503.8	1503.8	1509.8	1511.4	1514.4	1517.4
50°	1324.5	1333.6	1330.6	1335.2	1336.7	1338.2	1333.6	1341.2	1339.7	1353.4	1350.3
52.5°	1157.4	1159.0	1165.0	1166.6	1168.1	1169.6	1177.2	1183.3	1184.8	1190.9	1201.5
55°	996.4	997.9	1010.1	1010.1	1017.7	1019.2	1029.8	1032.9	1037.4	1054.1	1057.2
57.5°	844.5	853.6	859.7	862.8	867.3	874.9	881.0	894.7	902.3	912.9	923.5
60°	707.8	718.5	726.1	729.1	735.2	744.3	751.9	767.1	780.7	792.9	800.5
62.5°	581.8	590.9	596.9	607.6	607.6	615.2	633.4	642.5	657.7	668.3	682.0
65°	469.4	475.4	486.1	486.1	492.1	504.3	519.5	533.2	548.3	563.5	577.2
67.5°	367.6	372.1	378.2	384.3	387.3	402.5	414.7	434.4	448.1	458.7	475.4
70°	278.0	281.0	288.6	294.7	299.2	309.9	323.5	337.2	350.9	363.0	379.7
72.5°	199.0	205.1	212.7	217.2	220.2	227.8	241.5	255.2	267.3	279.5	288.6
75°	136.7	141.3	144.3	148.9	153.4	159.5	168.6	177.7	191.4	203.5	214.2
77.5°	85.1	89.6	94.2	95.7	97.2	103.3	109.4	118.5	127.6	136.7	144.3
80°	50.1	51.6	53.2	54.7	57.7	62.3	65.3	71.4	77.5	83.5	91.1
82.5°	25.8	27.3	28.9	28.9	28.9	30.4	34.9	38.0	39.5	42.5	47.1
85°	10.6	10.6	10.6	12.2	12.2	13.7	13.7	15.2	15.2	16.7	18.2
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P879348

CATALOG NUMBER: LD4C100D010 EU41009027 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1	4136.1
2.5°	4120.9	4120.9	4120.9	4119.4	4120.9	4120.9	4120.9	4119.4
5°	4081.4	4078.4	4078.4	4076.9	4075.3	4075.3	4076.9	4073.8
7.5°	4016.1	4011.5	4008.5	4008.5	4007.0	4005.5	4005.5	3997.9
10°	3931.0	3921.9	3921.9	3918.9	3906.7	3905.2	3902.2	3902.2
12.5°	3824.7	3814.1	3808.0	3800.4	3792.8	3786.7	3785.2	3779.1
15°	3698.6	3685.0	3674.3	3671.3	3659.1	3650.0	3650.0	3647.0
17.5°	3561.9	3540.7	3533.1	3525.5	3508.8	3507.2	3504.2	3490.5
20°	3407.0	3387.3	3376.6	3369.0	3358.4	3343.2	3340.2	3341.7
22.5°	3244.5	3217.1	3208.0	3200.4	3189.8	3176.1	3176.1	3165.5
25°	3075.9	3051.6	3042.4	3033.3	3016.6	3010.6	3003.0	3004.5
27.5°	2904.2	2881.4	2873.8	2857.1	2846.5	2838.9	2831.3	2831.3
30°	2725.0	2712.8	2700.7	2699.2	2677.9	2668.8	2661.2	2655.1
32.5°	2551.8	2536.6	2530.6	2524.5	2513.9	2501.7	2500.2	2489.6
35°	2381.7	2366.5	2358.9	2352.8	2340.7	2336.1	2331.6	2334.6
37.5°	2202.5	2199.4	2194.9	2187.3	2179.7	2178.2	2172.1	2179.7
40°	2026.3	2024.8	2018.7	2020.2	2020.2	2017.2	2020.2	2020.2
42.5°	1856.2	1856.2	1850.1	1853.1	1854.6	1857.7	1862.2	1865.3
45°	1690.6	1689.1	1690.6	1693.6	1690.6	1698.2	1704.3	1708.8
47.5°	1520.5	1522.0	1528.1	1529.6	1532.6	1543.2	1543.2	1543.2
50°	1357.9	1365.5	1362.5	1371.6	1370.1	1376.2	1370.1	1370.1
52.5°	1203.0	1210.6	1212.1	1213.6	1222.8	1224.3	1224.3	1222.8
55°	1064.8	1075.4	1070.9	1078.5	1083.0	1086.0	1090.6	1087.6
57.5°	937.2	941.7	946.3	947.8	953.9	956.9	960.0	956.9
60°	811.1	820.2	827.8	829.3	832.4	835.4	836.9	841.5
62.5°	692.6	707.8	710.9	712.4	720.0	724.5	727.6	730.6
65°	587.8	598.5	606.1	610.6	616.7	616.7	621.2	621.2
67.5°	486.1	496.7	501.3	504.3	513.4	514.9	522.5	522.5
70°	393.4	401.0	404.0	408.6	417.7	423.8	426.8	429.9
72.5°	303.8	312.9	317.5	323.5	329.6	334.2	335.7	340.2
75°	221.8	235.4	237.0	243.0	247.6	253.7	256.7	255.2
77.5°	154.9	159.5	165.6	168.6	173.2	177.7	182.3	182.3
80°	95.7	101.8	103.3	104.8	110.9	113.9	117.0	117.0
82.5°	50.1	53.2	56.2	57.7	60.8	60.8	62.3	63.8
85°	19.7	21.3	21.3	21.3	22.8	24.3	24.3	24.3
87.5°	3.0	4.6	3.0	3.0	4.6	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)